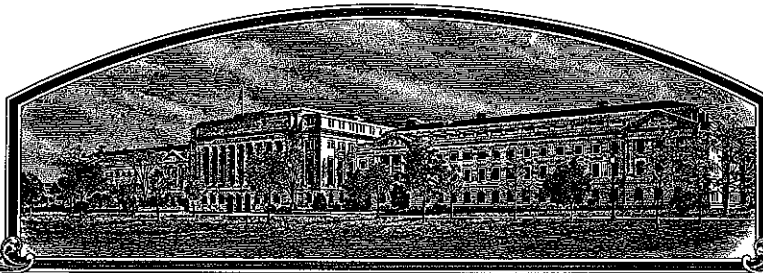


No.

200400292



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Seed Research of Oregon

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

FESCUE, TALL

'Grande II'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this sixteenth day of May, in the year two thousand and eight.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Seed Research of Oregon		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME SRX 84RH00		3. VARIETY NAME Grande II	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 27630 Llewellyn Rd. Corvallis, OR 97333		5. TELEPHONE (include area code) (541) 757-2663		FOR OFFICIAL USE ONLY PVPO NUMBER 200400292 FILING DATE August 11, 2004	
		6. FAX (include area code) (541) 758-5305			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Division of Research Seeds		8. IF INCORPORATED, GIVE STATE OF INCORPORATION MO		9. DATE OF INCORPORATION	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Dr. Leah A. Brilman Seed Research of Oregon 27630 Llewellyn Rd. Corvallis, OR 97333				F E E S R E C E I V E D FILING AND EXAMINATION FEES: \$ 3652 DATE 8/11/2004 CERTIFICATION FEE: \$ 768.00 DATE 4/14/2008	
11. TELEPHONE (include area code) (541) 758-9115 757-2663		12. FAX (include area code) (541) 758-2065 758-5305		13. E-MAIL srofarm@attglobal.net	
14. CROP KIND (Common Name) Tall Fescue		16. FAMILY NAME (Botanical) Poacea		18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS AND SPECIES NAME OF CROP Festuca arundinacea		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (if "yes", answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (if "no", go to item 23)	
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)				21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)	
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER Leah A. Brilman		SIGNATURE OF OWNER			
NAME (Please print or type) Leah A. Brilman		NAME (Please print or type)			
CAPACITY OR TITLE Research Director		DATE 08/04/2004		CAPACITY OR TITLE DATE	

(See reverse for instructions and information collection burden statement)

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvpindex.htm>

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 <http://www.ams.usda.gov/tsg/seed.htm>.

ITEM

- 19a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
(1) identify these varieties and state all differences objectively;
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
20. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

March, 2004 United States

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

Exhibit A.**Origin and Breeding History of Grande II Tall Fescue**

Grande II tall fescue (*Festuca arundinacea* Schreb.) is a low-growing, dark green, fine-leaved, turf-type tall fescue selected from the maternal progenies of 17 different clones.

The parental germplasm of Grande II tall fescue traces its origin to plants selected from old turfs of the United States in a germplasm collection program initiated in 1962 and to plants selected from or related to Rebel tall fescue (Funk et al., 1981). Attractive clones were selected from old turfs in Birmingham, AL; Athens, Atlanta, and Milledgeville, GA; Preston, ID; Baltimore, MD; Bayonne, Jersey City, Elizabeth, Princeton, and Cape May, NJ; eastern North Carolina; Philadelphia, PA; Nashville, TN; Lexington, KY; Cincinnati, OH; Dallas, TX; and northern Mississippi. The tall fescue plants selected from old turfs were of unknown origin. All were large patches of turf surviving in stressful environments indicating that they had persisted and developed over a period of many years.

A few hundred attractive, turf-type plants were collected and established in spaced-plant nurseries and/or frequently mowed clonal evaluation trials at Rutgers University. All but a few dozen of the most promising plants were quickly discarded. The best selections were very different from any tall fescue variety in existence at the time of collection. They produced lower-growing turfs with finer leaves, greater density, darker color, and greater tolerance of close mowing.

The parental clones used to develop Grande II came from many different cycles of plants received from the breeding program at Rutgers University and subjected to varying numbers of selection cycles by Seed Research of Oregon in Oregon, Missouri and New Jersey. Clonal plants that were from three to six years old that had rhizomes developed, were dwarf and fine textured were moved from existing breeder blocks into a separate breeder block in 1999. These plants were matched for growth from, maturity date and breeding background and placed in separate blocks. The parental plants for Grande II came from 17 plants, six single plants selected from the endophytic plants in Grande, three single plants from PRO 8430, derived from three cycles for brown patch

resistance in MO and turf quality in MD from original Grande germplasm, one plant from Grande selected for stem rust resistance in Oregon derived from clonal material from Grande in MO, and seven single plants that were single plants selected from the germplasm that later became SR 8600. These seven plants came from large numbers of single-plant progenies that were seeded in turf evaluation trials at the Plant Science Research Farm at Adelphia, NJ in 1995. The plants selected for progeny evaluation were selected from spaced-plant nurseries at Adelphia following varying cycles of phenotypic and genotypic selection of germplasm selected from old turfs and germplasm selected from or related to Rebel tall fescue. Following a period of summer stress due to heat, drought, and disease, a total of 1,900 plants were selected from 19 of the best performing single-plant progeny turf plots. All 19 progenies were from the 1995 test. Selection of progenies was based on performance records, as well as appearance at the time the plants were selected from these progeny plots. Selection of plants from each progeny was based on an attractive dark green color, fine leaves, abundant tillering, and freedom from disease. Selected plants were sent to Seed Research of Oregon in the fall of 1996. In 1997 and 1998, Seed Research of Oregon classified the plants received from Rutgers based on maturity, height, color and leaf texture. A total of 1295 plants were established of this material and, after elimination of many plants, superior plants were moved to multiple blocks. The plants that contributed to Grande II included W 65-6 derived from A 95-614, W62-23 and W62-16 both derived from A95-308, W54-22 from A95-507, W72-9 from A95-502, W71-26 from A95-267 and W60-10 from A95-313. The 17 plants were planted in isolation in 2000 and 70 progeny from each line established in the fall of 2000. Less than 10% of the block was removed due to differing color, heading date and or growth form. The first Breeder Seed was produced in 2001. The Breeder Block will be maintained until sufficient seed is produced for the life of the variety.

Grande II forms a high quality turf with a dark green color and dwarf growth habit. It contains high endophyte levels. Grande II is a stable and uniform variety. A few variants that are earlier than the rest of the variety have been observed in the foundation field (less than 1%) in spring, 2002. An examination of the Breeder block showed one clone showing an earlier heading date than the previous two springs it had been observed. The first foundation field was established in the fall of 2001. Three

generations of increase are approved. The variety has been observed to be uniform and stable for three generations from 2002 to present.

References

1. Buckner, R. C., J. B. Powell, and R. V. Frakes. 1979. Historical Development, in Buckner, R. C., and L. P. Bush (editors) Tall Fescue. Agronomy Monograph 20. American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Inc., Publishers. Madison, Wisconsin pages 1-8.
2. Funk, C.R., R.E. Engel, W.K. Dickson, and R.H. Hurley. 1981. Registration of Rebel tall fescue. Crop Sci. 21:632.

Diagram of Origin and Breeding History of Grande II Tall Fescue

1. 1962 to 1989

Germplasm collection, evaluation, and genetic improvement.

2. 1989

Planted single-plant progenies of plants selected from current cycles of population improvement programs in closely mowed turf trials at Adelphia and North Brunswick, NJ. Plants that were NJESD sent to Seed Research to develop Grande.

3. 1991

Twenty-seven plants from NJESD identified with endophyte, used to establish 1020 plant nursery that crossed with original breeder block of NJESD and produced breeder seed of Grande.

4. 1993

Superior plants from Grande with endophyte moved to new farm.

5. 1992 to 1996

Progeny from Grande cycled three times based on rust resistance, seed yield, brown patch resistance, turf performance in Maryland to develop PRO 8430.

6. 1996

Selected 1,900 plants from 19 of the best performing single-plant progeny turf plots planted in 1995 at Rutgers. Selected plants were sent to Seed Research of Oregon for further selection and classification.

7. 1997

Plants were selected and rouged according to growth habit, fine leaf texture, freedom from disease and seed yield. Some plants became SR 8600 and Rendition. Others moved to additional blocks.

8. 1999

Rhizomatous plants selected from individual blocks of spaced tall fescue plants at Seed Research of Oregon Farm classified based on height, texture, heading date, color and origin into three blocks, one designated Grande II consisting of 17 plants, 6 from Grande, one from two cycles from Grande, three from 3 cycles from Grande leading to PRO 8430 and 7 from germplasm related to material used to develop SR 8600.

9. 2000

70 progeny established of each of the 17 plants and rouged for uniformity with approximately 10% removed.

10. 2001

Breeder seed of Grande II was produced, first foundation field established.

#200400292

EXHIBIT B.**'GRANDE II' TALL FESCUE NOVELTY STATEMENT**

'Grande II' tall fescue most closely resembles Grande but can be distinguished from this variety by a combination of the following:

- 1) Grande II has a significantly narrower tiller leaf width 2002 and 2003 than Grande (Tables 5 and 6).
- 2) Grande II has a significantly darker green leaf color in 2002 and 2003 than Grande Table 5 and 6).

EXHIBIT C
(TALL & MEADOW FESCUES)
U.S. DEPARTMENT OF AGRICULTURE
PLANT VARIETY PROTECTION OFFICE, AMS, USDA
NATIONAL AGRICULTURAL LIBRARY Bldg., Rm. 401
10301 BALTIMORE Ave.
BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY
TALL & MEADOW FESCUES
(Festuca spp.)

NAME OF APPLICANT(S) Seed Research of Oregon	TEMPORARY DESIGNATION SRX 84RH00	VARIETY NAME Grande II
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ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)

27630 Llewellyn Rd.
Corvallis, OR 97333

FOR OFFICIAL USE ONLY
PVPO NUMBER

200400292

Place the appropriate number that describes the varietal characteristic of this variety in the boxes below. Use leading zeroes when necessary (e.g. 089). Characteristics described, including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors. Characteristics marked with an asterisk * are characteristics which should be recorded.

* 1. SPECIES: (With comparison varieties, use varieties within the species of the application variety)

 X 1 = *F. arundinacea* (Tall)

Turf Types

1 = Kentucky 31	2 = Rebel	3 = Olympic	4 = Bonanza	5 = Arid	6 = Rebel II
7 = Shortstop	8 = Silverado	9 = Rebel Jr.	10 = Mini Mustang	11 = Crewcut	12 = Bonsai

Forage Types

20 = Kentucky 31	21 = Martin	22 = Forager	23 = Mozark
24 = Kenhy	25 = AU Triumph	26 = Fawn	27 = Cajun

 2 = *F. pratensis* (Meadow)

30 = Admira	31 = Beaumont	32 = Comtessa	33 = Ensign	34 = Trader
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* 2. CYTOLOGY:

 42 Chromosome Number

3. ADAPTATION: (0 = Not Tested; 1 = Not Adapted; 2 = Adapted)

 2 Transition Zone 2 West 2 Northeast 2 Other (Specify): Mid west

* 4. MATURITY: (Date First Headed, 10% of Panicle Emergence)

<u> 5 </u> Maturity Class	1 = Very early ()	2 = AU Triumph	3 = Early (Fawn)	4 = K31, Kenhy	5 = Medium (Rebel)
6 = Bonanza	7 = Late (Silverado)	8 =	9 = Very late		

Date Headed 128.3 Location Albany, OR

 3 Days earlier than 12

Maturity same as 9 Comparison Variety

 4 Days later than 1

* 5. MATURE PLANT HEIGHT CM: (Average of 100 culms from crown to top of panicle, if panicle is nodding, straighten)

78.6 cm Height

7.4 cm shorter than Grande

Height same as 10 Comparison Variety

5.4 cm taller than 8

* INTERNODE LENGTH CM: (First internode subtending the flag leaf)

12.8 cm Internode length

3.0 cm shorter than Grande

Length same as 10 Comparison variety

 cm longer than

* HEIGHT AT EAR EMERGENCE CM: (Flag leaf height from crown to flag leaf node)

34.2 cm Height

6.0 cm shorter than Grande

Height same as 9 Comparison Variety

 cm taller than

* 6. GROWTH HABIT: (Mature Plants)

8 1 = Prostrate () 3 = Semiprostrate () 5 = Horizontal ()
7 = Semierect (Rebel) 9 = Erect (Mini Mustang)

* 7. RHIZOMES (Psuedo):

62.5 mm Length 31 = Absent () 2 = Rare (Rebel) 3 = Common () Internode mean 28.6 mm

* 8. LEAF BLADE: (Tiller leaves/ turf color)

* 5.8 Color: 1 = Light green () 3 = Medium light green () 5 = Green ()
7 = Medium dark green () 9 = Very dark green ()
4.1 Specify rating of comparison variety Grande

* 1 Anthocyanin: 1 = Absent () 9 = Present ()

* 5 Basal Hairs: 1 = Absent () 9 = Present (KY-31)

* 2 Margins: 1 = Smooth () 5 = Semi-rough () 9 = Rough ()

* 5 Width Class: 1 = Very coarse () 3 = Coarse () 5 = Medium ()
7 = Fine () 9 = Very Fine ()

* TILLER LEAF LENGTH CM: (First leaf subtending the flag leaf)

16.2 cm Tiller Leaf Length

2.5 cm shorter than Grande

Length same as 10 Comparison Variety

 cm longer than

* TILLER LEAF WIDTH MM:

3.3 mm Tiller Leaf Width

0.7 mm narrower than 4

Width same as 12 Comparison variety

 mm wider than

8. LEAF BLADE: (continued)

#200400292

FLAG LEAF LENGTH CM:

FLAG LEAF WIDTH MM:

13.7 cm Flag Leaf Length2.8 mm Flag Leaf Width2.2 cm shorter than 10.6 mm narrower than 1Length same as 12 Comparison VarietyWidth same as 7 Comparison variety2.5 cm longer than 10 mm wider than

* 9. LEAF SHEATH: (Basal Portion)

* 6 Anthocyanin (seedling): 1 = Absent (K31) 9 = Present ()* 9 Auricle Hairiness: 1 = Absent () 9 = Present ()

* 10. PANICLE: (At seed maturity except where noted.)

* 5.0 Shape: 1 = Narrow-tapering () 5 = Ovate () 7 = Oblong () 9 = Other (specify)* 3.7 Type: 1 = Compact (appressed) 5 = Intermediate () 7 = Open () 9 = Other (specify)* 6.1 Orientation: 1 = Nodding () 9 = Erect ()* 9 Branch Pubescence: 1 = Glabrous () 9 = Pubescent ()* 1 Anther Color (At anthesis): 1 = Yellowish Green 2 = Green 3 = Bluish Green
4 = Purplish 5 = Reddish 6 = Other (Specify)* 2.6 Glume Color (At anthesis): 1 = Yellowish Green 2 = Green 3 = Bluish Green
4 = Purplish 5 = Reddish 6 = Other (Specify)* 19.7 cm Panicle Length (from base to tip, if nodding, straighten; after anthesis)2.9 cm shorter than 12Length same as 10 Comparison Variety cm longer than

* 11. SEED: (With Lemma & Pelea)

* 2910 mg per 1000 seeds337 mg less than WranglerWeight same as 4 Comparison Variety290 mg more than 10PALEA: (Keels or Margins) Hairs: 1 = Absent () 5 = Short (Missouri 96) 9 = Long ()LEMMA: Hairs: 1 = Absent (Kenhy) 5 = Several () 9 = Many (Missouri 96)6.0 mm Lemma Length (Mature) 1.5 mm Lemma width0.6 mm shorter than 4 0.1 mm narrower than 1Length same as 7 Comparison Variety Width same as 8 Comparison variety mm longer than mm wider than

8. LEAF BLADE: (continued)

200400292

FLAG LEAF LENGTH CM:

FLAG LEAF WIDTH MM:

13.7 cm Flag Leaf Length2.8 mm Flag Leaf Width2.2 cm shorter than 10.6 mm narrower than 1Length same as 12 Comparison VarietyWidth same as 7 Comparison variety2.5 cm longer than 10 mm wider than

* 9. LEAF SHEATH: (Basal Portion)

* 6 Anthocyanin (seedling): 1 = Absent (K31) 9 = Present ()* 9 Auricle Hairiness: 1 = Absent () 9 = Present ()

* 10. PANICLE: (At seed maturity except where noted.)

* 5.0 Shape: 1 = Narrow-tapering () 5 = Ovate () 7 = Oblong () 9 = Other (specify)* 3.7 Type: 1 = Compact (appressed) 5 = Intermediate () 7 = Open () 9 = Other (specify)* 6.1 Orientation: 1 = Nodding () 9 = Erect ()* 9 Branch Pubescence: 1 = Glabrous () 9 = Pubescent ()* 1 Anther Color (At anthesis): 1 = Yellowish Green 2 = Green 3 = Bluish Green
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11. SEED : (continued)

*AWNS: 9 AWNS: 1 = Absent () 9 = Present (Falcon)

% Plants with awns 200400292

3.0 mm Awn length (Of those present.)

0.3 mm Shorter than 8

Length same as _____ Comparison Variety

0.2 mm Longer than 10

12. DISEASE, INSECT, AND NEMATODE REACTION: (0= Not Tested 1= Least Resistant 9= Most Resistant)

_____ Melting-out *Drechslera poae*

_____ Blind Seed *Gloeotinia temulenta*

_____ Leaf Spot *D. siccans*

_____ Dollar Spot *Lanzia, Mollerdiscus* spp.

_____ Net Blotch *D. dictyoides*

_____ Stem Rust *Puccinia graminis*

6.3 Brown Patch *Rhizoctonia solani*

6.7 T. Blight *Typhula incarnata*

_____ C. Leaf Spot *Cercospora fectuae*

7.7 Pythium Blight *Pythium* spp.

_____ Pink Snow Mold *Gerlachia nivalis*

_____ Powdery Mildew *Erysiphe graminis*

_____ Silver Top *F. tricinatum, F. roseum*

_____ Crown Rust *Puccinia coronata*

_____ Other Disease _____

_____ Other Insect _____

_____ Other Nematode _____

13. ENVIRONMENTAL STRESS

5 Drought Stress 1 = Susceptible () 5 = Tolerant () 9 = Resistant ()

_____ Shade Stress 1 = Susceptible () 5 = Tolerant () 9 = Resistant ()

_____ Winter Stress 1 = Susceptible () 5 = Tolerant () 9 = Resistant ()

14. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY. For the following characteristics, indicate the degree of resemblance with the following scale:

1 = Application variety is less than comparison variety 2 = Same as 3 = More than, better, greater, darker, etc.

Character Rating	Varieties	Rating	Character	Varieties
Leaf Width	Grande	1	Leaf Color	Grande 1
Panicle Color	Grande	2	Panicle Shape	Grande 2
Seed Size	Grande	3 (Lemma width)	Cold Injury	Grande 2
Winter Color	Grande	3	Heat	Grande 2
Disease				

* 15. EXPERIMENTAL: Give a brief summary of the experimental design utilized to collect the data used on this form. Cultural conditions, number of plants measured and plant spacing must be specified.
See attached description.

2004 00292

EXHIBIT D.

ADDITIONAL DESCRIPTION OF THE VARIETY

'GRANDE II' TALL FESCUE**Trial Description**

Data for morphological measurements were generated from a spaced planted nursery of individuals from 32 cultivars or experimental lines cultured at the Research Facility of Pickseed West, Inc. near Albany Oregon. The nursery was from individual seeds established in the fall of 2001 and transplanted into the nursery in November, 2001, with traits measured on the same plants in 2002 and 2003. Differences in measurements can be accounted for by plant maturity having a stronger influence on some cultivars than others. Treatments were arranged in a randomized complete block experimental design with three replications. Each replication for an entry was represented by 20 individuals transplanted in a single row 50 cm apart within the row. Plant nutrition consisted of 39.2 kg N/ha at transplanting and again in October 2002. Additionally 100.8 kg N/ha was split applied in the spring of 2002 and again in 2003, one half in March and the other half in April in each of the years.

200400292
(near Albany, OR)

Table 1. Heading and anthesis dates for tall fescue varieties in 2002. The plants were established in the fall of 2001 with the seed of control varieties obtained from the repository at the Plant Material Center at Pullman, WA or from the breeder. Growth conditions are described under descriptive information.

(BT:3/5/2008)

Variety	Heading Date Mean	Anthesis Date Mean
Southeast	118.9	151.6
Watchdog	124.0	151.7
KY-31	124.3	153.6
Shenandoah II	125.2	154.5
Falcon	125.8	154.4
Tomahawk	126.8	155.2
Crossfire II	127.1	155.7
Mini-Mustang	127.3	155.6
Grande	128.0	155.0
Grande II	128.3	154.4
Rebel Jr.	128.8	154.7
Cayenne	128.9	154.9
Rebel II	129.1	155.7
Dynasty	129.8	155.1
Wrangler	129.9	155.4
Bonanaza	130.0	157.1
Mustang 3	130.0	155.4
Silverado	130.0	159.0
Shortstop	130.1	156.7
Crewcut	130.1	158.6
Renegade	130.6	157.9
Bonsai	131.2	157.9
SR 8200	132.2	157.8
LSD @5%	2.4	1.5

(near Albany, OR)

Table 2. Heading and anthesis dates for tall fescue varieties in 2003. The plants were established in the fall of 2001 with the seed of control varieties obtained from the repository at the Plant Material Center at Pullman, WA or from the breeder. Growth conditions are described under descriptive information.

(BT:3/5/2008)

Variety	Heading Date	Anthesis Date
	Mean	Mean
Southeast	105.3	144.6
KY 31	110.0	146.4
Falcon	112.3	148.9
Tomahawk	113.0	147.8
Watchdog	113.0	146.0
Crossfire II	115.7	150.6
Shenandoah II	116.0	149.4
Wrangler	116.3	149.9
Rebel II	117.0	150.3
Crewcut	117.3	152.4
Grande	117.7	149.7
Mini-Mustang	118.0	152.8
Grande II	119.0	150.5
Bonanza	119.0	152.7
Cayenne	119.0	151.6
Silverado	119.0	154.2
SR 8200	120.0	151.8
Rebel Jr.	120.0	152.8
Shortstop	120.7	152.6
Renegade	121.0	153.4
Dynasty	121.3	152.5
Bonsai	121.7	153.3
Mustang III	122.0	151.8
LSD @5%	2.5	1.6

Table 3. Plant characteristics for tall fescue varieties in 2002. Plants are those used in Table 1 with growth characteristics as described. (ATBanyor)

(BT:3/5/2008 per applicant's authorization)

<u>Variety</u>	<u>Plant Height (cm)</u>	<u>Height at ear Emergence (cm)</u>	<u>Internode Length (cm)</u>	<u>Growth Habit*</u>
Silverado	73.2	32.7	13.1	7.7
Watchdog	74.1	33.8	12.3	6.4
Rebel Jr.	74.9	33.9	12.2	6.1
Cayenne	75.1	31.6	13.3	7.5
Grande II	78.6	34.2	12.8	5.9
Mini-Mustang	78.9	36.4	13.0	7.1
Crewcut	79.2	35.2	13.8	7.0
SR 8200	79.8	36.3	13.1	5.9
Shortstop	80.8	35.5	14.1	6.8
Dynasty	81.3	37.1	14.5	6.7
Shenandoah II	81.3	35.7	13.1	7.1
Crossfire II	83.1	37.7	14.2	7.5
Mustang 3	83.4	35.6	14.4	7.2
Wrangler	85.0	41.7	16.2	6.6
Renegade	85.2	41.1	15.6	6.7
Grande	86.1	40.2	15.8	5.8
Bonanza	86.8	41.0	15.1	6.8
Tomahawk	87.1	40.5	16.2	6.8
Bonsai	88.2	43.3	15.7	7.0
Rebel II	91.2	43.2	16.8	6.3
Falcon	98.6	47.1	20.2	5.8
KY-31	108.9	59.1	21.3	5.2
Southeast	110.5	56.2	20.8	5.4
LSD@5%	8.1	5.0	2.5	1.0

* Growth Habit - 1 = prostrate, 3 = semi-prostrate, 5 = horizontal, 7 = semi-erect, 9 = erect

Table 4. Plant characteristics for tall fescue varieties in 2003. Plants are those used in Table 2 with growth characteristics as described. (Albany, OR)
(BT13/5/2008)

<u>Variety</u>	<u>Plant Height (cm)</u>	<u>Height at ear Emergence (cm)</u>	<u>Internode Length (cm)</u>	<u>Growth Habit*</u>
Cayenne	101.0	61.2	25.9	8.7
Watchdog	105.3	61.7	25.7	8.4
Shenandoah II	108.2	59.9	25.9	8.8
Mini-Mustang	109.9	65.8	25.4	8.9
Crossfire II	112.4	65.1	24.0	8.8
Shortstop	114.6	73.5	26.1	8.8
Dynasty	115.1	72.2	26.4	8.8
Mustang 3	115.6	71.0	26.1	8.9
Grande II	116.1	71.5	25.4	8.9
Wrangler	116.4	72.7	22.9	8.1
Silverado	116.6	73.4	26.9	8.7
Rebel Jr.	117.6	70.3	26.6	8.8
Tomahawk	120.2	68.3	27.6	8.7
Bonsai	122.3	75.4	27.7	8.9
Renegade	123.4	79.2	27.7	8.7
Crewcut	124.3	74.3	27.4	8.7
Bananaza	130.2	79.2	26.4	8.5
SR 8200	133.0	81.3	26.5	9.0
Grande	133.4	81.9	28.7	8.8
Rebel II	139.7	89.0	28.1	8.7
Falcon	140.9	92.2	25.7	7.0
KY-31	144.9	94.7	27.9	7.0
Southeast	147.5	93.3	27.3	7.0
LSD@5%	14.2	11.7	4.0	0.4

* Growth Habit - 1 = prostrate, 3 = semi-prostrate, 5 = horizontal, 7 = semi-erect, 9 = erect

Table 5. Leaf characteristics of tall fescue varieties in 2002 near Albany, OR. The plants are those described in Table 1. The flag leaves were measured on the reproductive tillers utilized in Table 3. The tiller leaf was measured as the last fully expanded leaf on vegetative tillers on the same plants as described in Table 1.

Variety	Flag Leaf		Tiller Leaf		Tiller Leaf	
	Length (cm)	Width (mm)	Length (cm)	Width (mm)	Color ¹	Texture ²
Watchdog	9.73	2.65	13.30	3.60	4.8	5.0
Dynasty	10.33	2.48	14.43	3.63	5.0	4.6
Cayenne	10.74	2.93	13.22	3.07	5.5	5.4
Crewcut	11.17	2.72	14.61	3.48	4.5	4.4
Mini-Mustang	11.45	2.62	16.45	3.60	5.0	4.8
Crossfire II	11.51	2.87	16.72	3.56	5.8	3.7
Shenandoah II	11.67	2.95	15.29	3.52	5.5	4.2
Mustang 3	11.79	2.87	15.59	3.75	6.1	4.2
Shortstop	12.07	2.82	17.17	3.43	4.8	4.7
Silverado	12.41	3.05	16.15	3.98	4.2	4.8
Tomahawk	13.19	2.98	17.52	3.63	3.4	3.9
Wrangler	13.45	3.07	17.12	3.97	2.8	3.4
Bonsai	13.65	2.93	17.54	3.83	5.2	4.7
Grande II	13.69	2.82	16.24	3.28	5.8	4.1
Rebel Jr.	13.81	3.18	17.16	3.40	4.4	4.0
Renegade	13.88	3.23	18.71	4.25	4.5	3.5
Grande	13.91	2.93	18.96	4.15	4.1	3.2
SR 8200	14.21	3.32	18.16	3.88	4.2	3.7
Rebel II	15.28	3.02	20.61	4.32	4.2	3.3
Bonanza	15.30	3.27	20.50	3.95	3.7	3.2
KY-31	15.93	3.42	21.27	4.92	1.1	1.0
Falcon	15.99	3.00	20.28	4.02	2.9	1.6
Southeast	16.74	3.40	21.84	4.60	1.9	1.0
LSD@5%	2.19	0.57	2.21	0.65	1.1	0.6

Color¹ - Foliage color 1 to 9 scale where 1 = light green and 9 = very dark green

Texture² - Leaf blade width on a 1 to 9 scale where 1 = very coarse and 9 = very fine

Table 6. Leaf characteristics of tall fescue varieties in 2003 near Albany, OR. The plants are those described in Table 1. The flag leaves were measured on the reproductive tillers utilized in Table 4. The tiller leaf was measured as the last fully expanded leaf on vegetative tillers on the same plants as described in Table 2.

Variety	Flag Leaf		Tiller Leaf		Color ¹
	Length (cm)	Width (mm)	Length (cm)	Width (mm)	
Watchdog	15.17	3.74	22.24	4.63	4.8
Dynasty	16.55	3.72	25.06	4.62	5.6
Cayenne	16.68	3.75	24.78	4.31	5.4
Shenandoah II	17.37	3.94	26.31	4.71	5.3
Mustang 3	18.15	3.66	22.71	4.66	5.7
Wrangler	18.25	4.02	23.13	4.94	3.3
Mini-Mustang	19.02	3.82	25.95	4.58	4.1
Crossfire II	19.05	4.09	26.78	4.70	5.4
Shortstop	19.05	3.87	24.92	4.63	4.6
Crewcut	19.17	4.26	24.32	4.91	4.3
SR 8200	19.81	4.68	24.75	5.71	4.2
Grande II	20.06	3.96	25.89	4.77	5.3
Tomahawk	20.11	4.41	25.02	5.01	5.0
Bonsai	20.16	4.79	27.66	5.44	4.9
Falcon	20.44	4.58	28.50	5.67	2.7
Rebel Jr.	20.56	4.01	26.86	4.88	4.0
Grande	20.73	4.84	28.29	5.53	3.9
Renegade	21.53	4.13	29.72	5.00	5.0
Southeast	21.75	5.03	29.17	5.94	1.1
Silverado	22.24	4.18	27.25	4.82	4.6
Bonanza	22.78	5.15	28.82	5.94	4.1
Rebel II	23.12	4.92	30.94	5.48	4.1
KY-31	23.17	4.93	29.64	5.85	1.1
LSD@5%	2.90	0.72	5.35	0.74	0.9

Color¹ - Foliage color 1 to 9 scale where 1 = light green and 9 = very dark green

Table 7. Panicle and seed characteristics of tall fescue varieties in 2002. Plants and growing conditions are as described in Table 1. Panicles were collected from the plants in the PVP nursery at seed maturity and placed in envelopes for later analysis. Seed measurements were performed on a fully formed viable seed from the bottom third of the panicle.

Variety	Panicle Length(cm)	Panicle Shape	Panicle Type	Panicle Orientation	Seed Weight (mg/1000 seeds)
Cayenne	16.04	5.2	3.9	7.3	2680
Watchdog	17.54	4.8	3.1	5.9	2593
Dynasty	17.76	5.3	4.2	5.7	2927
Silverado	16.52	6.0	5.5	5.1	2693
Mustang 3	19.30	6.0	3.0	6.1	2833
Mini-Mustang	19.48	5.1	4.1	4.5	2620
Grande II	19.71	5.0	3.7	6.1	2910
Crewcut	20.04	5.2	2.8	5.4	2747
Shortstop	20.30	5.8	3.5	5.7	2707
Wrangler	20.33	4.9	3.6	2.0	3247
Shenandoah II	20.61	5.0	3.3	4.9	2720
Tomahawk	21.10	6.1	4.3	4.4	2817
Crossfire II	21.31	6.0	3.5	3.5	3013
SR 8200	21.47	6.3	5.2	5.7	2930
Rebel Jr.	21.55	6.2	4.1	5.1	2783
Grande	21.62	5.4	3.4	2.7	2623
Renegade	22.12	5.3	4.5	4.9	2837
Bonsai	22.60	5.2	3.4	5.3	2853
Rebel II	23.25	6.4	4.0	1.9	3190
Falcon	24.08	4.7	3.7	1.5	2877
Bonanza	24.47	6.0	3.4	3.4	2990
Kentucky 31	27.77	5.7	3.5	1.0	3300
Southeast	27.88	5.3	3.4	1.0	2867
LSD@ 5%	2.09	1.2	1.7	1.4	283

Panicle Shape - 1 = narrow tapering, 5 = ovate, 7 = oblong, 9 = other

Panicle Type - 1 = compact (appressed), 5 = intermediate, 7 = open, 9 = other.

Panicle Orientation - 1 = nodding, 5 = middle, 9 = erect.

Table 7. (Continued).

Variety	Lemma		Glume Color at anthesis
	Length(mm)	10 seed width(mm)	
Cayenne	5.69	14.43	2.2
Watchdog	5.67	14.26	2.8
Dynasty	5.85	15.06	3.0
Silverado	5.95	14.90	2.7
Mustang 3	5.86	15.23	2.7
Mini-Mustang	6.29	15.19	2.5
Grande II	5.96	14.91	2.6
Crewcut	6.39	14.89	2.5
Shortstop	5.98	14.58	2.7
Wrangler	6.17	16.69	2.8
Shenandoah II	5.86	14.65	2.6
Tomahawk	6.01	14.91	3.1
Crossfire II	6.35	15.40	2.3
SR 8200	6.31	14.86	2.6
Rebel Jr.	5.74	14.89	2.9
Grande	6.39	15.07	2.7
Renegade	5.74	14.86	2.5
Bonsai	6.12	15.59	2.5
Rebel II	6.25	15.73	3.1
Falcon	6.33	15.35	2.6
Bonanza	6.57	15.40	2.6
Kentucky 31	6.93	16.12	2.2
Southeast	6.08	15.60	2.3

LSD@5% 0.44 0.93 0.4

Glume color (at anthesis): 1 = Yellowish Green, 2 = Green, 3 = Bluish Green, 4 = Purplish, 5 = Reddish, 6 = Other (Specify)

(Near Albany, OR)

Table 8. Panicle and seed characteristics of tall fescue varieties in 2003. Plants and growing conditions are as described in Table 2. Panicles were collected from the plants in the PVP nursery at seed maturity and placed in envelopes for later analysis. Seed measurements were performed on a fully formed viable seed from the bottom third of the panicle. Awn length was measured on 60 seeds with awns from each cultivar (6/15/2008).

Variety	Panicle Length(cm)	Panicle Shape	Panicle Type	Panicle Orientation	Seed Weight (mg/1000seeds)
Cayenne	24.07	5.5	3.6	3.7	2270
Watchdog	26.95	5.2	4.5	1.4	1690
Dynasty	27.15	4.4	2.9	2.5	2357
Mustang 3	27.52	5.1	3.9	6.3	2023
Wrangler	27.99	6.3	5.0	3.4	2407
Mini-Mustang	28.35	5.8	4.5	4.1	2017
Crossfire II	28.93	5.3	4.3	8.8	2540
Shortstop	29.10	5.8	4.7	1.0	2337
Shenandoah II	29.58	5.7	4.3	4.0	2347
Grande II	29.68	4.9	3.3	1.0	2267
Tomahawk	30.43	5.6	4.2	3.6	2437
Silverado	30.56	5.6	5.5	1.0	2283
Renegade	30.92	5.7	4.2	7.3	2460
Borisai	31.01	6.0	4.2	8.5	2270
Rebel Jr.	31.58	5.9	5.0	4.7	2500
Crewcut	32.71	5.3	4.0	4.5	2140
SR 8200	33.22	5.1	3.6	1.9	2203
Grande	33.38	4.9	4.2	4.0	2157
Falcon	34.23	5.9	4.5	1.6	2183
Bonanza	36.34	4.0	4.5	8.5	2497
Rebel II	36.50	6.1	5.5	2.9	2203
Southeast	36.84	5.8	4.9	3.9	2363
Kentucky 31	37.81	7.0	5.0	4.7	2327
LSD@ 5%	3.23	1.3	1.3	3.4	459

Panicle Shape - 1 = narrow tapering, 5 = ovate, 7 = oblong, 9 = other

Panicle Type - 1 = compact (appressed), 5 = intermediate, 7 = open, 9 = other.

Panicle Orientation - 1 = nodding, 5 = middle, 9 = erect.

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Table 8. (Continued).

Variety	Lemma		% Branch Pubescence	Awn Length(mm)
	Length(mm)	10 seed width(mm)		
Cayenne	6.26	15.03	7.8	2.16
Watchdog	6.15	15.12	9.0	2.44
Dynasty	6.28	15.01	7.8	2.22
Mustang 3	6.19	14.44	8.3	2.82
Wrangler	6.38	14.52	9.0	3.18
Mini-Mustang	6.42	15.71	9.0	2.68
Crossfire II	6.33	14.42	9.0	2.76
Shortstop	6.29	14.09	8.2	2.51
Shenandoah II	6.19	14.89	9.0	2.51
Grande II	6.06	14.60	8.7	2.63
Tomahawk	5.99	15.65	9.0	2.71
Silverado	5.82	15.39	8.3	2.57
Renegade	6.08	14.84	7.8	2.24
Bonsai	6.25	15.18	9.0	2.24
Rebel Jr.	5.83	14.98	7.1	2.63
Crewcut	6.68	15.07	8.2	2.76
SR 8200	6.21	14.83	8.1	2.67
Grande	6.50	15.30	8.1	2.39
Falcon	6.58	15.02	8.3	2.79
Bonanza	6.39	14.73	8.1	2.80
Rebel II	6.77	14.58	9.0	2.55
Southeast	6.60	15.35	9.0	3.28
Kentucky 31	7.06	15.80	9.0	3.03
LSD@5%	0.41	1.47	0.5	0.10

Panicle branch pubescence - 1 = glabrous, 9 = pubescent

Table 9. Morphological traits of tall fescue cultivars measured 2003-2004 from greenhouse measurements at the research facility of Pickseed West, Inc., Albany, OR.

Line	1	2	3	4	5	6
Bonanza	5	1	5	2	6	8
Bonsai	5	1	5	2	8	8
Grande	3	1	5	2	7	7
Grande II	5	1	5	2	6	9
Kentucky 31	1	1	9	6	9	9
LTP-7801	6	1	4	3	5	8
Silverado	5	1	6	3	6	8

1 = Leaf blade - width class (1 = very coarse, 3 = coarse, 5 = medium, 7 = fine, 9 = very fine)

2 = Leaf blade - anthocyanin (1 = absent, 9 = present)

3 = Leaf blade - basal hairs (1 = absent, 9 = present)

4 = Leaf blade - margins (1 = absent, 5 = semi-rough, 9 = rough)

5 = Leaf sheath - anthocyanin (seedling) (basal portion) (1 = absent, 9 = present)

6 = Leaf blade - auricle hairiness (basal portion) (1 = absent, 9 = present)

TABLE 10. BROWN PATCH (WARM TEMPERATURE) RATINGS OF YALL FESCUE CULTIVARS 1/
2002 DATA

NAME	BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/										MEAN
	AR1	IL2	IN1	OK1	VA1	WI1					
KY-31 E+	8.0	5.7	8.7	7.0	8.7	8.0					7.7
TITANIUM (SRH)	7.0	6.3	8.0	8.0	7.7	8.3					7.6
PST-SKI	6.3	5.7	8.3	7.7	8.3	8.3					7.4
PST-S512	7.3	5.7	8.3	7.0	8.7	7.7					7.4
CAYENNE	7.0	6.0	8.3	7.7	7.7	7.7					7.4
MUSTANG 3	7.0	5.7	8.3	7.7	7.7	8.0					7.4
PST-SA1	8.7	4.3	7.7	7.7	8.0	8.0					7.4
BAR FA 1003	7.3	4.7	8.0	7.3	8.3	8.7					7.4
ENDEAVOR	7.3	4.7	8.3	7.0	8.3	8.3					7.3
SOUTHERN CHOICE II	7.7	6.0	8.0	6.7	7.3	8.3					7.3
FINELAWN ELITE (DLSD)	7.3	5.7	6.7	7.3	8.3	8.7					7.3
FORTE (SE-2)	6.3	6.3	8.7	6.0	8.3	8.3					7.3
JT-6	7.7	6.3	7.3	7.0	7.3	8.3					7.3
ROBERTS SM4	8.3	4.7	8.7	6.7	7.3	8.3					7.3
RENDITION	7.7	4.0	8.3	6.7	8.7	8.3					7.3
01-ORU1	8.3	6.3	9.0	6.3	7.3	8.3					7.3
MILLENNIUM	8.0	4.7	7.7	6.7	8.0	8.7					7.3
R-4	7.0	5.0	8.0	7.0	8.7	8.0					7.3
SILVERSTAR (PST-SASR)	7.0	5.0	8.3	6.7	8.0	8.7					7.3
GUARDIAN-21 (ROBERTS DOL)	6.7	6.0	8.7	7.0	7.0	8.0					7.2
PICASSO	8.0	5.0	8.0	7.0	7.3	8.0					7.2
PST-SJM	7.7	4.7	7.7	7.0	8.0	8.3					7.2
BILTMORE	7.3	5.0	6.7	7.0	8.3	8.7					7.2
CIS-YF-77	6.0	6.0	8.0	7.0	8.0	8.0					7.2
DOMINION	7.0	4.0	8.7	6.3	8.7	8.3					7.2
GO-RD4	7.7	4.7	8.7	6.7	7.3	8.0					7.2
JT-9	8.7	4.3	8.0	6.7	7.3	8.0					7.2
MAGELLAN (OD-4)	8.7	4.3	8.7	7.3	8.0	8.0					7.2
SIGNIA	7.7	3.7	8.7	6.7	8.3	8.0					7.2
NA-TD0	8.0	5.0	7.3	7.0	7.0	8.7					7.2
TAR HEEL II (PST-5TR1)	7.0	4.3	7.0	7.7	8.3	8.3					7.1
CIS-YF-67	6.3	6.0	8.0	6.7	8.0	7.7					7.1
OLYMPIC GOLD	7.0	4.3	8.0	7.3	8.3	7.7					7.1
REBEL EXEDA	7.3	4.3	8.0	7.0	8.0	8.0					7.1
REMBRANDT	6.7	5.3	7.3	7.7	7.7	8.0					7.1
TAR HEEL	7.3	4.3	8.0	6.7	8.0	8.3					7.1
BE1	7.7	4.7	8.3	6.3	7.3	8.0					7.1
KO1-WAF	8.0	4.7	7.7	7.0	7.0	8.0					7.1
PLANTATION	7.7	3.7	8.0	6.7	8.3	8.0					7.1
PROSEDS S301	7.7	5.3	8.0	6.7	6.3	8.3					7.1
PROSPECT	6.7	3.3	8.3	7.3	8.7	8.0					7.1
PST-510	6.0	5.3	7.7	6.7	8.0	8.7					7.1
TF66	7.3	4.7	8.3	6.3	7.3	8.3					7.1
SILVERADO II (PST-578)	7.3	4.3	7.7	7.0	8.0	8.0					7.1

TABLE 10. BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2002 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	ARI	IL2	IN1	OK1	VA1	WI1	MEAN
ATF 759	5.7	7.0	8.0	6.0	7.0	8.3	7.0
GO-SIU2	7.0	5.0	8.3	8.3	7.0	8.3	7.0
MASTERPIECE	7.7	5.7	7.0	7.0	7.3	7.3	7.0
ATF-800	7.7	4.7	8.0	7.0	6.0	8.7	7.0
CAS-NC1	7.0	4.7	7.3	7.0	7.7	8.3	7.0
DLP-J210	7.0	4.7	8.7	7.0	6.7	8.0	7.0
GREMLIN (P-58)	6.0	4.3	8.0	7.0	8.3	8.3	7.0
PST-5T1	6.7	5.0	7.7	6.7	8.0	8.0	7.0
RAPTOR (CIS-TF-33)	7.0	4.3	8.0	7.0	7.7	8.0	7.0
PST-53T	8.0	5.0	7.3	7.0	6.0	8.7	7.0
Q1-RUTOR2	6.0	5.0	6.3	6.3	8.0	8.0	6.9
ATF-803	7.0	4.7	7.7	7.0	7.0	8.3	6.9
COCHISE XII (018)	6.0	5.0	7.7	6.7	8.0	8.3	6.9
K01-8015	5.0	6.7	7.3	7.0	7.3	8.3	6.9
KALAHARI	5.7	5.7	8.0	6.3	7.7	8.3	6.9
PAORE (RJ4)	6.7	5.7	8.3	6.3	6.3	8.3	6.9
BAR FA 10R7	7.3	6.0	7.3	6.3	6.0	8.7	6.9
BARRERA	5.7	5.3	7.7	7.3	7.7	8.0	6.9
FOCUS	6.0	6.3	7.3	6.3	7.7	8.0	6.9
HA 138	7.0	5.3	7.3	6.7	7.3	8.0	6.9
PST-5NAS	7.3	6.0	8.0	6.0	6.3	8.0	6.9
SR 8800	7.0	4.3	8.3	6.3	7.7	8.0	6.9
BLACKWATCH (PICK-DD3-01)	5.7	4.0	8.3	7.0	8.3	8.0	6.9
CIS-TF-60	6.3	4.0	8.7	6.7	7.7	8.0	6.9
DAVINCI (LTP-7801)	6.3	4.7	7.7	7.3	7.0	8.3	6.9
FALCON II	8.0	4.7	7.3	6.7	6.7	8.0	6.9
QO-DD2	7.0	5.0	7.7	6.7	7.0	8.0	6.9
JAGUAR 3	6.7	5.0	8.0	6.3	7.0	8.3	6.9
JUSTICE (RB2-01)	6.3	5.0	7.7	6.3	7.7	8.3	6.9
PICK-00-AFA	6.7	4.0	7.3	6.7	8.0	8.7	6.9
BINGO	7.0	4.3	8.0	7.0	7.0	8.0	6.9
FALCON IV (F-4)	6.0	4.3	8.0	7.0	8.0	8.0	6.9
2ND MILLENNIUM	6.3	4.7	7.0	6.7	8.0	8.3	6.8
INFERNO (JT-99)	6.7	4.0	7.3	6.7	8.3	8.0	6.8
PST-SF2B	6.0	4.0	7.3	7.0	8.3	8.3	6.8
TITAN LTD.	8.0	4.3	7.3	6.3	7.7	7.3	6.8
WT-RB3	6.0	4.0	7.7	7.7	7.0	8.7	6.8
PST-57E	5.0	5.7	8.0	6.7	7.3	8.0	6.8
PST-5KU	6.7	4.0	7.0	6.7	8.0	8.3	6.8
QUEST	6.3	5.3	7.7	6.7	7.3	7.3	6.8
SOUTH PAW (NRF 24)	5.3	5.3	7.7	6.7	7.3	8.3	6.8
ATF 704	6.0	5.7	8.0	6.3	6.7	8.0	6.8
B-7001	7.7	4.3	7.3	6.0	7.3	8.0	6.8
BAR FA 1005	6.0	4.3	8.0	7.0	8.0	7.3	6.8
BARLEXAS	6.0	4.3	8.3	6.7	7.7	7.7	6.8

TABLE 10. BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D) 2002 DATA

BROWN PATCH RATINGS 1-9; 8=NO DISEASE 2/

NAME	AR1	IL2	IN1	OK1	VA1	WI1	MEAN
CAS-ED	7.5	5.0	7.3	8.3	6.3	8.3	6.8
COYOTE	7.0	3.7	7.3	7.0	7.0	8.7	6.8
TEMPEST	7.7	3.3	8.0	7.0	6.7	8.0	6.8
K01-E03	4.7	5.0	8.7	6.0	8.3	7.7	6.7
K01-E09	5.0	5.0	8.0	6.7	7.7	8.0	6.7
PST-SBAB	5.7	2.3	8.7	7.0	8.3	6.3	6.7
TRACER	6.7	3.7	8.0	6.7	7.0	8.3	6.7
UT-155	5.7	5.0	8.0	7.3	6.3	8.0	6.7
WATCHDOG	8.0	3.0	8.3	7.3	7.7	8.0	6.7
CIS-TF-65	6.3	7.0	6.3	6.3	5.0	8.3	6.7
CONSTITUTION (ATF-S93)	6.0	4.0	7.3	7.0	7.3	8.7	6.7
HA 127	6.7	5.3	7.0	6.3	7.0	8.0	6.7
FIVE POINT (MCN-RC)	7.0	3.7	7.3	6.3	8.3	7.7	6.7
BARLEXAS II	6.3	5.3	8.0	6.7	5.0	8.7	6.7
DAYTONA (HRF 23)	7.0	4.0	8.0	6.7	6.0	8.3	6.7
DYNASTY	4.3	5.0	7.7	7.3	7.7	8.0	6.7
WYATT	7.3	3.3	7.7	6.0	7.7	8.0	6.7
AVERGER (L12)	6.0	3.3	7.7	6.7	8.0	8.0	6.6
GRANDE II	8.7	4.7	7.7	6.7	6.0	8.0	6.6
JT-18	6.7	3.3	7.7	6.7	7.0	8.3	6.6
Q1-TFOR3	7.3	4.0	7.0	6.0	7.0	8.3	6.6
JT-15	6.0	4.3	7.7	6.3	7.0	8.3	6.6
MATADOR	5.7	4.7	8.0	6.3	7.3	7.7	6.6
HRF 25	5.0	3.7	8.0	7.3	7.3	8.3	6.6
SCORPION	7.0	3.3	8.0	6.7	7.0	7.7	6.6
BRAVO	6.3	3.7	7.7	6.7	7.7	7.3	6.6
PICK ZHA	7.3	2.7	7.3	6.7	7.0	8.3	6.6
Y991	7.7	5.0	7.7	5.7	5.0	8.3	6.6
TULSA II (ATF 706)	6.0	4.3	6.7	6.0	8.0	8.3	6.6
REBEL SENTRY	6.3	3.0	8.3	6.7	6.3	8.7	6.6
SR 8250	8.0	3.7	8.0	6.7	5.3	7.7	6.6
TOMAHAWK HT	7.3	6.7	6.0	5.0	6.3	8.0	6.6
WOLFPACK	6.3	2.3	8.3	7.3	7.0	8.0	6.6
ATF 702	6.7	5.0	7.3	5.7	6.0	8.3	6.5
BARRINGTON	5.3	4.0	7.0	6.7	7.7	8.3	6.5
TANOE (CAS-157)	5.7	4.0	7.3	5.7	7.7	8.7	6.5
JT-12	6.7	3.3	8.0	6.3	6.3	8.3	6.5
HA 158	6.7	3.7	8.0	6.7	6.0	8.0	6.5
HRF 27	7.3	3.3	8.0	6.7	7.7	7.7	6.5
STETSON	7.7	4.0	6.7	6.3	6.3	8.0	6.5
LARAMIE	6.0	3.3	8.0	6.7	6.3	8.3	6.4
PST-STUO	5.7	3.7	7.3	6.7	7.0	8.3	6.4
HRF 26	7.7	3.3	7.0	6.3	6.7	7.7	6.4
ATF 586	5.3	5.3	7.3	5.7	6.7	8.0	6.4
ATF 806	5.0	4.7	6.7	6.0	8.3	7.7	6.4

TABLE 10
(CONT'D)
BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/
2002 DATA

NAME	BROWN PATCH RATINGS 1-8; 9=NO DISEASE 2/									
	ARI	IL2	IN1	OK1	VA1	WI1	MEAN			
EA 183	7.0	4.0	7.0	6.0	5.7	8.7	6.4			
MRF 28	7.0	3.0	7.7	7.0	5.3	8.3	6.4			
UP 50-9226	5.0	3.7	8.0	7.3	6.0	8.3	6.4			
KITTY HAWK 2000	5.3	4.0	7.3	7.0	7.0	7.7	6.4			
LEGITIMATE	7.3	4.3	7.0	6.7	5.0	8.0	6.4			
PST-882	6.3	3.3	6.7	6.7	7.3	8.0	6.4			
ATF 707	8.0	5.3	7.7	6.0	5.0	8.0	6.3			
LANCER	9.7	5.0	7.0	7.3	5.3	7.7	6.3			
PURE GOLD	7.0	3.3	8.0	6.0	6.0	7.3	6.3			
GO-FL3	5.7	3.7	8.3	7.0	5.3	7.7	6.3			
MRF 210	7.0	2.0	7.3	7.0	6.3	8.0	6.3			
SRX 805	5.3	4.0	8.3	6.3	6.0	7.7	6.3			
JT-13	6.7	4.0	7.3	6.0	5.0	8.3	6.2			
FINESSE II	5.3	4.3	7.0	6.3	6.7	7.7	6.2			
ELISA	6.7	3.3	7.0	5.0	7.3	7.7	6.2			
K01-8007	6.0	5.3	5.7	7.0	4.7	8.0	6.1			
SR 8550 (SRX 88E4)	5.3	4.7	7.3	6.3	4.7	8.3	6.1			
PICK TF H-87	4.7	3.0	7.7	6.3	7.0	7.7	6.1			
COVENANT (ATF 802)	5.7	3.3	7.0	7.0	5.3	8.0	6.1			
MRF 28	5.3	3.0	8.3	6.7	4.7	8.0	6.0			
MRF 211	5.7	3.7	8.0	6.0	4.3	8.0	5.9			
PST-801	5.7	4.0	6.3	6.0	5.7	8.0	5.9			
JTFF-2000	4.0	4.3	6.7	6.3	6.7	7.3	5.9			
BONSAL	5.7	4.3	7.0	4.0	6.0	6.7	5.6			
CIS-TF-64	5.0	4.3	5.7	6.0	4.7	7.3	5.5			
DP 50-9082	4.3	2.7	6.7	5.3	4.7	7.7	5.2			
LSD VALUE	3.3	3.3	1.5	1.6	2.4	0.9	1.0			
C.V. (%)	31.3	45.8	12.1	15.1	21.4	8.7	21.7			

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 11. BROWN PATCH (WARM TEMPERATURE) RATINGS OF FALL FESCUE CULTIVARS 1/
2003 DATA

NAME	BROWN PATCH RATINGS 1-9: S=NO DISEASE 2/									
	ARI	GA1	IL2	MA1	NU1	NU2	PA1	MEN		
REBEL EXEDA	7.0	7.0	2.3	8.0	6.7	5.3	8.7	7.4		
KY-31 E+	8.7	7.0	7.0	8.7	6.3	5.7	7.7	7.3		
PADRE (NTA)	8.0	6.3	5.7	8.7	6.3	5.7	8.0	7.1		
ENDAVOR	8.0	6.3	6.7	9.0	8.3	5.7	7.7	7.1		
OLYMPIC GOLD	8.0	6.7	6.3	8.3	6.7	5.0	8.7	7.1		
TAR HEEL	7.7	6.7	6.0	9.0	6.7	5.3	8.0	7.0		
PST-5812	8.7	6.0	5.7	8.3	5.0	6.0	8.7	7.0		
TAR HEEL II (PST-5811)	8.0	6.0	5.7	8.3	7.0	5.3	8.7	7.0		
PST-581	8.0	6.3	5.7	8.7	6.3	5.3	8.7	7.0		
TITANIUM (SH)	7.0	6.3	5.7	8.3	6.3	5.7	8.3	7.0		
DOMINION	8.0	7.3	5.7	8.0	7.0	5.0	7.7	7.0		
WOLFPACK	8.3	6.7	5.3	8.0	5.3	6.7	8.3	7.0		
COCHISE III (018)	7.3	6.7	5.7	8.0	6.7	6.0	8.0	6.9		
MAGELLAN (00-4)	8.3	6.3	5.3	8.3	5.7	5.2	8.0	6.9		
R-4	7.3	6.3	5.3	8.3	5.7	5.2	8.0	6.9		
MUSTING 3	7.7	6.7	6.3	8.3	6.3	5.3	8.0	6.9		
REMERLOT	7.3	6.0	7.3	9.0	5.7	5.0	8.0	6.9		
ATP 799	6.3	6.3	7.3	8.3	6.7	4.7	8.3	6.9		
PROSPECT	7.7	6.3	6.3	8.0	5.7	5.0	8.0	6.9		
PICK 2M3	8.7	6.3	5.7	8.7	6.3	4.3	7.7	6.8		
PICK TP 8-97	7.0	6.7	6.7	8.0	6.0	5.7	7.3	6.8		
GUARDIAN-21 (ROBERTA DO.)	7.3	6.3	7.3	7.0	5.7	5.7	8.0	6.8		
SILVERADO II (PST-578)	8.7	6.3	6.0	7.0	6.0	5.7	7.7	6.8		
ESCALADE (01-001)	7.7	6.3	6.3	7.7	5.3	5.3	8.3	6.7		
FIDELITY (PST-571)	7.3	6.7	5.3	7.0	6.3	6.3	8.0	6.7		
REGIMENT II (SEX 805)	7.0	6.3	6.0	8.2	5.7	5.3	8.3	6.7		
CAYENNE	8.0	6.7	7.0	8.7	5.7	4.0	7.0	6.7		
2ND HILLENBUSH	7.3	6.3	6.7	8.3	5.0	4.7	8.7	6.7		
CUSTICE (RR2-01)	8.7	6.7	8.0	8.0	6.0	5.3	8.3	6.7		
PST-SLO	6.7	6.7	5.7	8.3	5.7	6.3	7.3	6.7		
APACHE III (PST-541)	7.0	6.3	6.7	7.7	6.0	4.7	8.3	6.7		
QUEST	7.7	6.0	5.7	8.7	5.7	5.0	8.0	6.7		
MASTERSPIECE	8.0	7.0	5.7	8.0	5.3	5.0	7.7	6.7		
PLANATION	7.3	7.0	6.0	8.3	5.3	5.3	7.7	6.6		
PST-5F20	8.0	6.7	5.7	7.7	5.3	5.3	7.7	6.6		
SILVERSTAR (PST-548)	7.0	6.0	6.3	8.7	7.0	5.0	8.3	6.6		
PINELAWN ELITE (DLSD)	6.7	6.3	5.7	8.0	5.7	5.7	8.3	6.6		
LAGUNA 3	7.3	6.3	5.3	8.0	6.3	6.7	8.3	6.6		
PST-588	7.0	6.3	5.3	8.3	6.0	5.0	7.7	6.6		
UTIMATE (01-ROTOR2)	7.0	6.3	5.3	8.0	5.3	4.3	8.7	6.6		
RIVERSIDE (PROSEDS 5301)	8.0	6.0	6.0	8.3	6.0	5.0	7.7	6.6		
CIS-IF-77	6.7	6.7	8.0	8.3	6.7	4.7	8.0	6.5		
50-002	8.0	6.0	5.3	6.7	7.0	5.3	7.3	6.5		

#200400292

TABLE 11. BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL RESCUE CULTIVARS 1/
(CONT'D.) 2003 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/										
NAME	ARI	GAI	IL2	MA1	MA2	NJ2	PA1	MEAN		
K01-WAP	7.7	6.0	5.7	5.0	4.7	5.3	7.3	5.5		
GO-R04	7.7	6.7	7.3	7.3	6.0	3.7	7.0	6.5		
JT-12	6.0	7.0	6.7	6.3	6.0	4.0	7.7	6.5		
DINASTY	7.3	6.3	6.7	5.0	5.0	4.7	7.7	6.5		
BAR FR 1009	8.0	5.7	6.3	5.3	5.7	6.3	8.0	6.5		
BARTEXAS	6.7	6.7	5.3	8.0	4.7	5.7	8.3	6.5		
NATADOR GT (PAT-5100)	7.2	5.7	6.3	7.7	5.3	5.3	7.7	6.5		
BAR FA 1003	7.7	6.7	5.7	6.0	4.7	5.7	7.0	6.5		
DYNAMIC (PAT-57E)	5.7	6.0	5.7	5.3	5.7	4.3	7.7	6.5		
SOUTHERN CHOICE II	8.0	6.7	6.0	8.0	5.7	3.3	7.3	6.5		
FIVE POINT (MCH-PC)	7.3	6.3	5.7	7.7	6.3	4.7	7.0	6.4		
MILLENNIUM	8.3	6.0	7.0	8.7	5.0	2.7	7.3	6.4		
PICASSO	7.7	6.0	4.3	8.7	5.0	5.0	8.3	6.4		
SCORION	7.0	5.7	6.0	9.0	5.3	3.7	7.3	6.4		
MS 127	7.0	6.0	6.3	8.3	6.0	4.7	6.7	6.4		
RINJA 2 (ATP-808)	7.3	6.3	5.3	9.0	5.7	3.7	7.7	6.4		
BLACKWATCH (PICK-OD3-01)	6.3	5.7	5.7	7.7	5.3	5.7	8.3	6.4		
INFERNO (JT-59)	7.0	6.7	6.7	6.7	6.0	4.3	7.3	6.4		
BE1	8.0	6.0	6.0	7.3	6.0	5.0	7.3	6.4		
CIS-TP-60	7.0	5.0	6.3	8.3	5.0	3.3	6.7	6.4		
DAVINCI (LTP-7801)	6.3	7.0	5.7	8.0	5.7	4.7	7.7	6.4		
REMOTION	7.3	6.0	6.0	7.7	5.0	5.0	7.0	6.4		
TROOPER (01-TPGR3)	6.0	6.3	5.7	9.0	5.3	5.0	7.0	6.3		
FALCON IV (F-4)	7.0	6.0	6.7	7.3	4.3	5.7	7.3	6.3		
FOCUS	7.7	6.3	6.0	8.0	4.0	4.3	8.0	6.3		
PICK-00-AVA	8.0	6.3	5.7	8.0	4.3	3.7	7.3	6.3		
FORGE (BE-2)	6.7	5.0	6.0	8.0	4.3	5.7	7.7	6.3		
SR 8250	7.3	6.3	4.7	8.3	5.0	4.7	8.0	6.3		
JT-5	7.7	7.0	5.3	7.7	5.0	4.3	7.0	6.3		
STONEWALL (JT-18)	6.7	6.7	5.0	8.0	5.0	4.3	7.3	6.3		
B-7001	7.3	6.3	5.7	8.0	5.3	4.3	7.0	6.3		
RINGO	6.0	6.3	5.3	7.7	5.0	4.3	7.3	6.3		
BLADE RUNNER (ROBERTS SW4)	7.7	5.7	6.3	6.7	6.0	4.7	7.0	6.3		
CP 50-5226	7.3	6.0	4.0	8.0	5.7	3.7	8.3	6.3		
GREMLIN (P-58)	6.3	6.3	5.3	9.0	4.7	4.7	7.7	6.3		
WYATT	7.3	6.3	6.3	9.0	4.3	2.7	7.0	6.3		
TEMPEST	8.3	6.0	4.7	8.7	5.0	3.7	7.7	6.3		
WATCHDOG	5.7	5.7	7.7	7.7	4.3	4.7	8.3	6.3		
EA 161	7.3	6.0	5.3	7.3	6.3	5.3	8.0	6.2		
KALAHARI	7.3	6.3	5.3	9.0	3.7	5.3	6.7	6.2		
NA 138	6.7	6.0	6.0	8.0	5.3	4.0	7.7	6.2		
PST-5B2	7.0	6.3	4.7	8.3	5.3	4.3	7.7	6.2		
SIGNIA	6.7	6.0	6.3	7.7	4.7	4.7	7.7	6.2		
SR 8550 (SRX 8B84)	7.3	7.0	6.0	6.3	4.7	4.3	8.0	6.2		
TABOE (CAS-157)	7.7	6.3	6.7	8.3	3.7	4.0	7.0	6.2		

TABLE 11.
(CONT'D)
BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL PESCUE CULTIVARS 1/
2003 DATA

	BROWN PATCH RATINGS 1-3, 9=NO DISEASE 2/									
NAME	ARI	GAI	IL2	MA1	NJ1	NJ2	PR1	MEAN		
ATF 704	7.7	6.7	5.3	7.0	5.7	4.3	6.7	6.2		
BARBERA	6.7	6.3	5.3	5.0	5.7	4.3	7.0	6.2		
HST-5N4S	7.0	6.7	6.0	7.0	4.7	2.7	8.3	6.2		
DT-135	6.3	6.0	5.7	8.0	6.7	4.3	6.3	6.2		
ER 8500	7.3	6.7	5.3	7.7	4.3	4.3	7.7	6.2		
STEISON	7.0	7.3	4.7	7.7	4.3	3.7	7.7	6.2		
UT-RE3	7.2	6.0	5.7	7.3	5.7	3.7	7.7	6.2		
BARRINGTON	7.3	6.3	5.7	6.3	4.3	4.0	7.7	6.2		
CAS-ED	7.0	5.7	5.3	7.7	5.0	4.7	7.7	6.1		
FALCON II	7.0	6.0	5.7	8.7	5.0	3.0	7.7	6.1		
GO-EL3	7.0	6.7	5.0	7.3	5.0	5.0	7.0	5.1		
PST-SKU	6.3	5.7	6.3	7.7	6.3	4.0	6.3	6.1		
CONSTITUTION (ATF-593)	8.3	5.7	5.0	7.0	4.7	4.3	7.7	6.1		
KIRKSE II	7.3	6.3	4.3	7.7	5.0	3.3	8.7	6.1		
LEGITIMATE	7.7	6.3	5.3	8.7	5.3	3.7	5.7	6.1		
MRF 210	7.3	6.3	5.3	8.7	4.3	3.0	7.7	6.1		
FACTOR (CIS-TP-33)	6.7	6.7	5.0	7.7	4.3	4.7	7.7	6.1		
CIS-TP-67	6.3	5.3	6.3	7.7	4.3	5.0	7.3	6.0		
GT-15	6.7	6.7	5.3	7.0	4.7	4.7	7.3	6.0		
GT-9	7.7	8.0	5.7	6.3	3.7	4.3	6.7	6.0		
MRF 23	7.0	8.0	5.3	7.0	5.7	4.3	6.7	6.0		
SOUTH FAW (MRF 24)	8.0	8.7	6.0	8.3	4.3	2.0	7.0	6.0		
AVENGER (L12)	7.0	6.0	5.3	7.0	4.3	5.7	7.0	6.0		
BAR FA 1CR7	7.0	6.3	5.0	8.3	4.0	3.7	8.0	6.0		
BILTMORE	7.0	5.7	6.0	8.3	3.3	4.0	8.0	6.0		
LARMIIE	6.7	6.2	6.3	2.0	5.3	3.0	6.7	6.0		
TRACER	6.7	5.7	5.3	7.7	5.3	3.0	8.3	6.0		
EARLEKAS II	6.7	5.7	5.3	9.0	5.0	2.7	7.7	6.0		
K01-E09	6.3	6.0	5.0	9.0	5.0	3.7	7.0	6.0		
CIS-TP-64	7.0	6.3	5.7	7.0	5.7	3.7	6.3	6.0		
ELISA	6.7	6.0	6.0	8.7	3.7	4.3	6.3	6.0		
GO-SIU2	7.0	6.0	5.7	8.0	4.3	4.3	6.3	6.0		
TULSA II (ATF 706)	6.7	6.0	5.7	8.0	4.3	4.3	6.3	6.0		
ATF 702	7.0	6.3	5.7	8.7	5.7	2.7	7.3	6.0		
BRAYO	5.7	5.7	5.0	8.3	6.3	3.3	7.7	6.0		
EXCEDEION (ATF-803)	6.7	6.0	4.7	8.3	5.3	3.0	7.7	6.0		
GRANDE II	6.7	6.7	5.3	8.0	5.7	2.7	6.3	6.0		
PUSF GOLD	7.7	6.0	5.3	7.0	5.0	2.7	6.3	6.0		
TOMSHANK GT	7.3	5.0	5.3	8.0	4.3	3.7	7.0	6.0		
ATF 586	8.0	6.7	5.7	7.7	6.0	2.3	5.0	5.9		
ATF 707	7.0	6.0	5.3	8.0	5.7	2.3	7.0	5.9		
MRF 25	7.7	6.3	5.7	7.0	4.7	3.0	7.0	5.9		
FIREHIND (CIS-TP-65)	7.7	6.3	4.7	7.3	5.3	3.7	6.0	5.9		
GT-13	7.3	5.3	5.0	7.7	5.0	2.7	8.0	5.9		
DAYTONA (MRF 23)	6.7	6.3	5.0	8.3	4.0	2.7	7.7	5.8		

TABLE 11. BROWN PATCH (WARM TEMPERATURE) RATINGS OF TALL FESCUE CULTIVARS 1/
(CONT'D.)
2003 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	ARI	GAI	IL2	MA1	BJ1	NJ2	PA1	MEAN
DLF-0210	8.0	5.7	4.7	8.0	4.3	2.3	7.7	5.8
HRF 25	7.0	5.7	6.0	7.0	4.7	3.7	6.7	5.8
ILIAN LTD.	5.3	6.0	6.3	6.0	4.0	3.3	6.7	5.8
COYOTE	7.3	5.3	4.3	9.0	4.7	3.0	6.7	5.8
MA 158	5.3	6.3	5.3	7.3	5.3	3.3	7.3	5.8
HRF 27	7.3	6.0	4.7	6.7	4.7	3.3	7.7	5.8
PSI-DDL	7.0	7.0	5.7	6.3	4.7	3.3	6.3	5.8
KEBEL SENIRY	7.7	5.7	5.0	7.3	4.3	4.3	6.3	5.8
PSI-53E	6.0	6.3	5.0	7.7	4.3	4.0	7.0	5.8
COVENANT (ATF 812)	6.3	5.7	5.3	6.7	5.7	3.0	5.3	5.7
PSI-53H	6.7	5.7	5.3	7.7	3.7	2.7	6.3	5.7
HRF 29	7.0	5.7	5.7	7.0	3.7	3.3	7.7	5.7
BONGAI	7.0	6.3	4.7	7.3	4.3	3.7	6.3	5.5
DE 50-9082	6.0	6.0	4.7	8.7	4.3	2.3	6.3	5.5
K01-8015	6.0	6.0	4.7	8.7	4.3	2.3	6.3	5.5
K01-8013	6.0	6.0	5.7	4.7	4.0	4.7	6.7	5.4
MAIADOR	7.8	6.0	5.7	7.7	2.7	3.7	6.7	5.4
MAIADOR	5.3	5.3	6.0	7.0	4.0	2.3	4.7	5.3
MAIADOR	7.3	6.0	4.3	7.0	4.0	2.0	6.3	5.3
K01-8007	6.0	6.0	5.7	5.7	2.7	4.0	6.7	5.2
HRF 211	6.0	6.0	5.7	5.3	4.7	3.0	6.0	5.2
T391	6.3	6.7	4.7	7.3	4.7	1.7	5.3	5.2
TR66	7.0	6.7	4.3	6.0	2.7	2.0	7.0	5.1
LANGER	6.7	6.3	6.3	6.3	4.3	2.3	3.3	5.1
ATF 806	6.0	5.7	5.0	6.0	4.0	3.3	5.0	5.0
OTIFF-2000	5.7	5.7	5.0	6.0	4.0	2.3	5.0	4.9
LSD VALUE	1.9	1.3	2.0	2.1	2.2	1.6	1.7	0.7
C.V. (%)	15.7	12.7	21.3	16.4	25.9	23.2	14.7	18.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 12
PYTHIUM BLIGHT (JULY) RATINGS OF PALL RESCUE CULTIVARS 1/
2003 DATA

PYTHIUM BLIGHT RATINGS 1-9; 9=NO DISEASE 2/

NAME	NH1	NAME	NH1
TROOPER (01-TEOR3)	9.0	MRF 23	9.0
ATF 764	9.0	MUSTANG 3	9.0
B-7001	9.0	MUNJA 2 (ATF-800)	9.0
BAR FA 1003	9.0	OLYMPIC GOLD	9.0
BAR FA 1009	9.0	PICASSO	9.0
BAR FA 1CR7	9.0	PICK TF H-27	9.0
BARLEXAS	9.0	PICK ZMG	9.0
BARLEXAS II	9.0	PLANTATION	9.0
BEI	9.0	PROSPECT	9.0
BONSRI	9.0	DYNAMIC (PST-37E)	9.0
BRAVO	9.0	APACHE III (PST-5A1)	9.0
CAS-ED	9.0	PST-5BAB	9.0
CAYENNE	9.0	PST-5B12	9.0
CIS-TF-87	9.0	FIDELITY (PST-5T1)	9.0
CONSTITUTION (ATF-593)	9.0	MATADOR GT (PST-5T00)	9.0
DAYTONA (MRF 23)	9.0	PST-DDL	9.0
DLF-J21Q	9.0	QUEST	9.0
DOMINION	9.0	RAPTOR (CIS-TF-33)	9.0
DYNASTY	9.0	REBEL SENTRY	9.0
EA 183	9.0	RESIDENT II (SRX 805)	9.0
ELISA	9.0	RENDITION	9.0
FALCON II	9.0	RIVERSIDE (PROCEEDS 5301)	9.0
FIREWANN ELITE (ULSD)	9.0	SOUTH FAW (MRF 24)	9.0
FIREBIRD (CIS-TF-55)	9.0	SOUTHERN CHOICE II	9.0
FIVE POINT (MCN-PC)	9.0	SR 8250	9.0
FOCUS	9.0	SR 3550 (SRX 82B4)	9.0
GO-FL2	9.0	SR 3800	9.0
GO-RB4	9.0	STEELSON	9.0
GO-SIU2	9.0	TAR REEL	9.0
GUARDIAN-21 (ROBERTS DOL)	9.0	TEMPEST	9.0
JT-12	9.0	TOMAHAWK GT	9.0
JT-15	9.0	TRACER	9.0
JT-5	9.0	ULSA II (ATF 706)	9.0
K01-E09	9.0	TURBO (CAS-MC1)	9.0
K01-WAF	9.0	UT-155	9.0
KI-31 E4	9.0	WOLFPACK	9.0
LEGITIMATE	9.0	WYATT	9.0
MA 136	9.0	ULTIMATE (01-RUT02)	8.7
MAGELLAN (OD-4)	9.0	ATF 586	8.7
MATROCK	9.0	ATF 707	8.7
MILLERHORN	9.0	ATE 799	8.7
MRF 210	9.0	BARRERA	8.7
MRF 25	9.0	BARRINGTON	8.7
MRF 26	9.0	BILTMORE	8.7
MRF 27	9.0	BLADE RUNNER (ROBERTS SM4)	8.7

#200400292

TABLE 12. (CONT'D) PYTHIUM BLIGHT (JULY) RATINGS OF TALL FESCUE CULTIVARS 1/
2003 DATA

PYTHIUM BLIGHT RATINGS 1-9; 9=NO DISEASE 2/

NAME	NMI	NAME	NMI
CIS-TF-64	8.7	K01-R03	8.3
CIS-TF-77	8.7	NRF 29	8.3
COCHISE III (018)	8.7	NA-TDD	8.3
COYOTE	8.7	PADEE (N04)	8.3
DAVINCI (LTF-7801)	8.7	PICK-00-AFA	8.3
DP 50-9082	8.7	PST-SJM	8.3
DP 50-9226	8.7	PST-SLO	8.3
ENDAVOR	8.7	SCORPION	8.3
GO-022	8.7	SILVERSTAR (PST-SASR)	8.3
GREMLIN (F-59)	8.7	TAR HESL II (PST-STRI)	8.3
JAGUAR 3	8.7	UT-RB3	8.3
JT-12	8.7	ESCLADE (01-OR01)	8.0
JT-9	8.7	ATF 806	8.0
JTTF-2000	8.7	BINGO	8.0
KALAHARI	8.7	FORTE (SE-2)	8.0
KITTY HAWK 2000	8.7	NA 156	8.0
LANCER	8.7	PST-FBZ	8.0
LARAMIE	8.7	PST-SMAE	8.0
MA 127	8.7	R-4	8.0
MASTERPIECE	8.7	REBEL EXEDA	8.0
MRF 213	8.7	TITANIC (SEM)	8.0
PST-53T	8.7	BLACKWATCH (PICK-OD3-01)	7.7
PST-SKI	8.7	GRANDE II	7.7
PST-SKU	8.7	JUSTICE (PSE-01)	7.7
PURE GOLD	8.7	K01-8007	7.7
SIGNIA	8.7	FALCON IV (F-4)	7.3
SILVERADO II (PST-578)	8.7	HEERO (JT-99)	7.3
STONEWALL (JT-18)	8.7	K01-8015	7.3
T991	8.7	REMBRANDT	7.3
TRACE (CAS-157)	8.7	ATF 702	7.0
TF66	8.7	COVERANT (ATF 802)	7.0
TITAN LTD.	8.7	PST-SF2D	7.0
2ND MILLENNIUM	8.3	WACUDOG	9.0
AVENGER (L12)	8.3	FINESE II	6.7
CIS-TF-60	8.3	LSD VALUE	1.2
EXPEDITION (ATF-803)	8.3	C.V. (%)	8.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.03).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) Seed Research of Oregon	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER SRX 84RH00	3. VARIETY NAME Grande II
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 27630 Llewellyn Rd. Corvallis, OR 97333	5. TELEPHONE (include area code) (541) 757-2663	6. FAX (include area code) (541) 758-5305
7. PVPO NUMBER 200400292		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. ☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. ☒ YES ☐ NO

10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

Original breeder is employee of Seed Research of Oregon and rights are assigned to Seed Research through employment agreement. Additional germplasm obtained from Rutgers University and royalties are paid based on contractual arrangement.

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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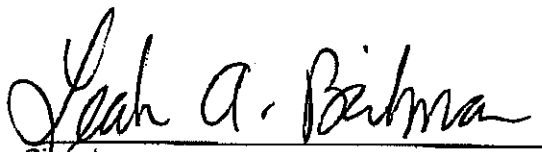
To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20260-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

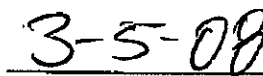
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

EXHIBIT F
DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S) Seed Research of Oregon	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 27630 Llewellyn Rd. Corvallis, OR 97333	TEMPORARY OR EXPERIMENTAL DESIGNATION SRX 84RH00
NAME OF OWNER REPRESENTATIVE (S) Dr. Leah A. Brilman	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 27630 Llewellyn Rd. Corvallis, OR 97333	VARIETY NAME Grande II
		PVP NUMBER #200400292

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.


Signature


Date